## ENVIRONMENTAL PROTECTION AGENCY VISIBLE EMISSION OBSERVATION FORM

USX - CLAIRTON WORKS, Clairton, PA. Process Equipment: "B" Coke Battery

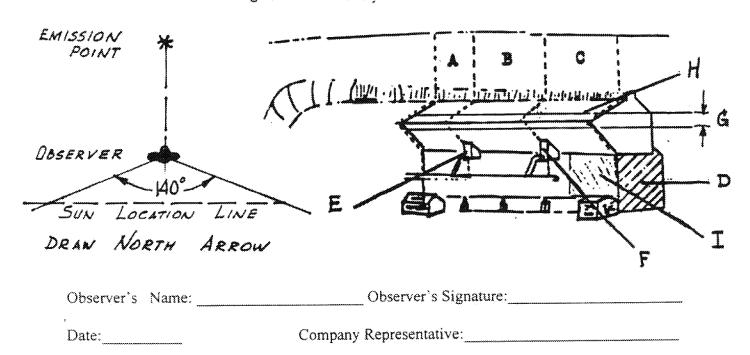
Control Equipment: Coke Side Shed and associated Pushing Emission Control Equipment

Emission Points: Visible Fugitive Emissions (VFE) from the Coke Side Shed and during Travel VFE shall be read against any contrasting background at an elevation above the lower roof line of the Shed from the position outside of the Shed.

Distance from observer:	Sky Condition	Wind Speed:
Wind Direction:	mbient Temperature:	Emission Color:

OVEN	713.47	PUSH		AREAS OF EMISSIONS
Nos.	TIME	Seconds Max. COMMENT ≥20% Opacity	and/or COMMENTS	

Notes: 1) Letters A.B.C,D,E,F,G,H,I on the sketch below designate Potential Emission Points.
2) Letters E & F designate also Doorways



# COUNTY OF ALLEGHENY, PENNSYLVANIA, ORDINANCE NO. 16782, and ALLEGHENY COUNTY HEALTH DEPARTMENT RULES AND REGULATIONS, ARTICLE XXI AIR POLLUTION CONTROL

Effective Date: February 1, 1994

As Amended by the Board of Health:
Effective October 20, 1995
Amended as noted, through March 13, 2008, Effective April 15, 2008

### Summary

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- Any alternative standard(s) established pursuant to this Subsection shall be proposed as an amendment to this Article. Upon the adoption of any such amendment, the affected source shall thereafter comply with the alternative standard(s) so established and shall be relieved of the duty to comply with the provisions of Subsection a above with respect to fugitive emissions. The Department shall submit any such amendment as a proposed revision to Allegheny County's portion of the SIP.
- 5. The failure to comply with any provision of an amendment adopted pursuant to this Subsection shall be a violation of this Article giving rise to the remedies set forth in §2109.02 of this Article.
- d. Measurements. Measurements of visible emissions shall be performed according to the procedures established by §2107.11 of this Article.
- Enforcement. Notwithstanding any other provision of this Article the prohibitions of Subsection a of this Section may be enforced against the owner or operator of any source at a single family residence or multiple-dwelling unit of no more than two dwelling units by any municipal or local government unit having jurisdiction over the place where the visible emissions occur. Such enforcement shall be in accordance with the laws governing such municipal or local government unit. In addition, the Department may pursue the remedies provided by §2109.02 of this Article for any violation of this Section.

#### §2104.02 PARTICULATE MASS EMISSIONS

leffective February 1, 1994, as §2104.6; renumbered and amended effective October 20, 1995, 2104.02.a. e. g. und h amended effective August 15, 1997; Subsection J. amended March 13, 2008, effective April 15, 2008.}

- a. Fuel-Burning or Combustion Equipment. No person shall operate, or allow to be operated, any fuel-burning or combustion equipment, where the actual heat input to such equipment is greater than 0.50 million BTUs per hour, in such manner that emissions of particulate matter exceed the following rates at any time:
  - 1. Where natural gas, grade number 2 fuel oil, coke oven gas, or blast furnace gas is used:

## MAXIMUM ALLOWABLE POUNDS PER MILLION BTUs OF ACTUAL HEAT INPUT <u>Type of Fuel-Burning or Combustion Equipment</u>

	True Of Fred Dalam	Combustion	Reciprocating Combustion	All Other
	Type Of Fuel Being Burned Or Combusted	Turbines	Engines	Equipment
Α.	Natural Gas	0.015	0.012	0.008
В.	Grade Number 2 Fuel Oil	0.04	0.28	0.015
C.	Coke Oven Gas	*	*	0.02
D.	Blast Furnace Gas	*	*	0.05

(\* see Paragraph a.2, below)

- 2. Where a single fuel is used other than as provided for in Paragraph a.1. above:
  - A. Where the actual heat input to such equipment is greater than 0.50 million BTUs per hour but less than 50 million BTUs per hour; the rate of 0.40 pounds per million BTUs of actual heat input:
  - B. Where the actual heat input to such equipment is equal to or greater than 50 million BTUs per hour, but less than 850 million BTUs per hour, the rate determined by the formula:

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## MAXIMUM ALLOWABLE POUNDS PER MILLION BTUS OF ACTUAL HEAT INPUT

0.00 \* particulate matter 0.00 \* particulate matter

0.120 PM-10 0.120 PM-10

0.02 particulate matter 0.02 particulate matter

## SPECIFIC FUEL-BURNING OR COMBUSTION EQUIPMENT Source Name Location

Source (vanne	i.ocaron
A. #13 Benzene Boiler	USX Corp. Clairton, PA
B. #14 Benzene Boiler	USX Corp. Clairton, PA
C. T1 (Benzene) Boiler	USX Corp. Clairton, PA
D. T2 (Benzene) Boiler	USX Corp. Clairton, PA
E. Coke Works Boiler #2	USX Corp. Clairton, PA
F. Coke Works Boiler #1	USX Corp. Clairton, PA
* 0.00 maximum indicates th	at these boilers shall not be operating

Aggregation. For purpose of this Subsection a only, if one or more fuel-burning or combustion emissions units are vented into a common flue, such emissions units shall be considered one emissions unit and allowable emissions shall be determined on the basis of total heat input to all emissions units vented to such common flue.

For any emissions unit that burns or combusts coal, that is subject to Paragraph a.3. of this Section, that is not located in a nonattainment area of the County for PM-10, that has a rated heat input greater than 50 million BTUs per hour, and that would comply with the emission standards under Paragraph a.2. of this Section notwithstanding the firing of the emissions unit with other fuel in addition to the coal, the Department may, upon written application from the person responsible for such emissions unit, determine compliance with this Subsection on the basis of the emission standards under Paragraph a.2. of this Section, notwithstanding the firing of the emissions unit with other fuel in addition to the coal, provided that the applicant demonstrates to the Department's satisfaction that such allowed emissions will not cause a significant air quality impact on any nonattainment area of the County for PM-10. Such determination of the Department shall not be effective until it is either approved by the EPA or included in a federally enforceable permit or order, whichever is first.

b. Processes - General. No person shall operate, or allow to be operated, any process except those processes listed in Subsection e.d., e. f., g., or b below and those processes for which a source standard is established under Part E. of this Article in such manner that emissions of particulate matter from such process exceed seven (7) pounds in any 60 minute period or 100 pounds in any 24-hour period, except that no person subject to the requirements of this Subsection b shall be required to reduce emissions to a greater degree than 99 percent.

This Subsection shall apply to the sum of all stack emissions from such process including all emissions from any air pollution control device outlet(s) associated with such process. All fugitive emissions from such process shall be included in the sum of all stack emissions for purposes of this Subsection unless the stack emissions can be accurately measured and all fugitive emissions do not exceed the standards established by §2104.01 of this Article or any alternative standard(s) established for such source pursuant to §2104.01 of this Article.

e. Specific Processes. No person shall operate, or allow to be operated, any process listed below, other than those subject to Subsection d, e, f, g, or h of this Section, in such manner that emissions of particulate matter from such process exceed at any time the rate determined by the formula set forth below.

This Subsection shall apply to the sum of all stack emissions from such process including all emissions from any air pollution control device outlet(s) associated with such process. All fugitive emissions from such process shall be included in the sum of all stack emissions for purposes of this Subsection unless the stack emissions can be accurately measured and all fugitive emissions do not exceed the standards established by

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d. Specific Process Sources. No person shall operate, or allow to be operated, any process listed below in such manner that emissions of PM-10 from such process exceed at any time the applicable rate set forth below.

This Subsection shall apply to the sum of all stack emissions from such process including all emissions from any air pollution control device outlet(s) associated with such process. All fugitive emissions from such process shall be included in the sum of all stack emissions for purposes of this Subsection unless the stack emissions can be accurately measured and all fugitive emissions do not exceed the standards established by \$2104.01 of this Article or any alternative standard(s) established for such source pursuant to \$2104.01 of this Article.

SPEC Source Name	IFIC PROCESS SOURCE	Permit Number	MAXIMUM A EMISSION	
1. Anneal. Fee Bases 801-856 each	USX Co. W. Mifflin PA	(to be assigned)	0.011 lbs	/ton_of steel
Primary Flash Reboiler     Secondary Flash Reboiler	Aristech, Clairton, PA	7035775-001-25703	0.07 lbs	/hour
	Aristech, Clairton, PA	7035775-001-25703	0.07 lbs	/hour
4. 2T3 Heater Reboiler	Aristech, Clairton, PA	7035775-001-25703	0.04 lbs	/hour
5. 2T4 Heater Reboiler	Aristech, Clairton, PA	7035775-001-25703	0.03 lbs	/hour
6, 1T2 Heater Reboiler	Aristech, Clairton, PA	7035775-001-25703	0.05 lbs	/hour
7, 1T4 Heater	Aristech, Clairton, PA	7035775-001-25703	0.01 lbs	/hour
8. Hot Oil Heater	Aristech, Clairton, PA	7035775-001-25703	0.02 lbs	/hour
9. 2T1 Heater Reboiler	Aristech, Clairton, PA	7035775-001-25703	0.02 lbs	/bour
10, #1 Primary Reboiler	Aristech, Clairton, PA	7035775-001-25703	0.07 lbs	/hour
11. Naphthalene Hot Oil Heater	Aristech, Clairton, PA	7035775-001-25703	0.27 lbs	/hour
12. Naphthalene Reactor Heater	Aristech, Clairton, PA	7035775-001-25703	0.05 lbs	/hour

e. Specific Controlled Process Sources. On and after December, 1, 1994, no person shall operate, or allow to be operated, any process listed below unless there is installed on such process an emission control device, nor shall any person operate, or allow to be operated, any process listed below in such manner that emissions of PM-10 from such process exceed at any time the applicable rate set forth below for a volume source for ambient air quality impact dispersion modeling purposes, or if the required emission control device results in the process becoming a point source for ambient air quality impact dispersion modeling purposes, a rate which results in no more adverse ambient air quality impact than the applicable rate set forth below for a volume source.

This Subsection shall apply to the sum of all stack emissions from such process including all emissions from any air pollution control device outlet(s) associated with such process. All fugitive emissions from such process shall be included in the sum of all stack emissions for purposes of this Subsection unless the stack emissions can be accurately measured and all fugitive emissions do not exceed the standards established by §2104.01 of this Article or any alternative standard(s) established for such source pursuant to §2104.01 of this Article.

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#### SPECIFIC PROCESS SOURCE.

Source Nome

4, #2 Second, Coal Pulverizer

VOLUME SOURCE MAXIMUM ALLOWABLE

E	MISSION	RATE
5.17	grains/tor	r of coal

Single State of the State of th			
1. #	I Primary Coal Pulverizer	USX Corp. Clairton, PA	
2. #	1 Second. Coal Pulverizer	USX Corp. Clairton, PA	
2 8	2 Primary Coal Pulverizer	HSX Corn. Clairton, PA	

Lacation

11.86 grains/ton of coal 8.26 grains/ton of coal

USX Corp. Clairton, PA 8.26 grains/ton of coal USX Corp. Clairton, PA 11.02 grains/ton of coal

No later than December 31, 1996 USX shall install a direct feed chute and distribution plough at the #2 secondary pulverizer, enclose all coal feed chutes, and install on IA to IB belts deflector plates, hoppers, and chutes. On and after December 31, 1996, USX shall use dust suppressant (e.g. chemical, oil, or water suppressant to minimize emissions) on coal prior to entry into any pulverizer.

No person shall operate, or allow to be operated, the Coke Screening #3 process at the USX Corporation facility in Clairton, PA. {permit number to be assigned}, unless there is installed on such process an emission control device, nor shall any person operate, or allow to be operated such process in such manner that emissions of PM-10 from such process exceed 1.26 pounds per hour at any time.

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This Subsection shall apply to the sum of all stack emissions from such process including all emissions from any air pollution control device outlet(s) associated with such process. All fugitive emissions from such process shall be included in the sum of all stack emissions for purposes of this Subsection unless the stack emissions can be accurately measured and all fugitive emissions do not exceed the standards established by §2104.01 of this Article or any alternative standard(s) established for such source pursuant to §2104.01 of this Article.

- g. No person shall operate, or allow to be operated, either the Coke Screening #1 or Coke Screening #2 process at the USX Corporation facility in Clairton, PA, unless such process, at a minimum, is located and maintained within the enclosure in existence as of February 1, 1994.
- h. No person shall operate, or allow to be operated, any of the Water Cooling Tower processes at the USX Corporation facility in Clairton, PA, unless the water used for such cooling is equivalent to, or better than, the water quality standards established for the Monongahela River by regulations promulgated by the DEP under the Pennsylvania Clean Streams Law, Act of June 22, 1937, P.L. 1987, as amended, 35 P.S. 691.1 et seq., except that water from the Monongahela River may be used for such cooling.

No person shall operate, or allow to be operated, the Keystone cooling tower at the USX Corporation facility at Clairton, PA unless there is installed a mist eliminator.

 Measurements. Measurements of particulate mass emissions shall be performed according to the applicable procedures established by §2107.02 of this Article.

#### §2104.03 SULFUR OXIDE EMISSIONS (Subsections a, c & d modified July 10, 2003)

- a. Fuel-Burning or Combustion Equipment. No person shall operate, or allow to be operated, any fuel-burning or combustion equipment in such manner that emissions of sulfur oxides, expressed as sulfur dioxide, exceed the following rates at any time:
  - For equipment fired only with natural gas and/or liquefied petroleum gas, a rate no greater than the potential to emit;
  - 2. For all other equipment: